CLAIMS

What is claimed is:

A cell search control method in a CDMA mobile communication system

including a mobile station which decides a base station the mobile station waits for or

communicates with by receiving a perch channel transmitted from the base station, and

which monitors a paging signal to the mobile station by means of intermittent reception

in the idle mode, said cell search control method comprising the step of:

carrying out, in the mobile station, measurement of receiving quality of the

perch channel in synchronization with timing of receiving the paging signal sent to the

mobile station.

2. The cell search control method as claimed in claim 1, wherein the

measurement of the receiving quality of the perch channel is carried out in the mobile

station when a time period counted from a latest measurement of the receiving quality

of the perch channel exceeds a predetermined value.

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3. A CDMA mobile communication system including a mobile station communicating with a plurality of base stations, each of said base stations comprising:

perch channel transmitting means for transmitting a perch channel to the mobile station; and

paging signal transmitting means for transmitting a paging signal to the mobile station, and said mobile station comprising:

base station decision means for deciding a base station said mobile station waits for or communicates with through the perch channel by receiving the perch channel transmitted by said perch channel transmitting means;

paging signal reception decision means for deciding in an idle mode as to whether the paging signal transmitted to said mobile station by said paging signal transmitting means is received or not by intermittent reception; and

receiving quality measurement means for measuring the receiving quality of the perch channel, wherein

said receiving quality measurement means carries out the measurement of the receiving quality of the perch channel in synchronization with timing of receiving the paging signal when said paging signal reception decision means decides that the paging signal is received.

4. The CDMA mobile communication system as claimed in claim 3, wherein said mobile station further comprises counting means for counting a time period from a latest measurement of the receiving quality of the perch channel, and wherein said receiving quality measurement means carries out the measurement of the

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receiving quality of the perch channel when the time period counted by said counting means exceeds a predetermined value.

5. A mobile station in a CDMA mobile communication system

communicating with a plurality of base stations, said mobile station comprising:

base station decision means for deciding a base station said mobile station waits

for or communicates with through a perch channel by receiving the perch channel

transmitted from the base station;

paging signal reception decision means for deciding in an idle mode as to

whether the paging signal transmitted to said mobile station from the base station is

received or not by intermittent reception; and

receiving quality measurement means for measuring the receiving quality of the

perch channel, wherein

said receiving quality measurement means carries out the measurement of the

receiving quality of the perch channel in synchronization with timing of receiving the

paging signal when said paging signal reception decision means decides that the paging

signal is received.

6. The mobile station as claimed in claim 5, further comprising counting

means for counting a time period from a latest measurement of the receiving quality of

the perch channel, wherein said receiving quality measurement means carries out the

measurement of the receiving quality of the perch channel when the time period

counted by said counting means exceeds a predetermined value.

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